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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,844	12/13/2006	Martin Dugas	22338-US	2216
22829 Roche Molecula	7590 12/10/200 ar Systems, Inc.	EXAMINER		
Patent Law Department			SALMON, KATHERINE D	
4300 Hacienda Drive Pleasanton, CA 94588			ART UNIT	PAPER NUMBER
			1634	
			MAIL DATE	DELIVERY MODE
			12/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/575,844	DUGAS ET AL.				
Office Action Summary	Examiner	Art Unit				
	KATHERINE SALMON	1634				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	-· action is non-final.					
<i>,</i>	, 					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
		3 G. 3 . 2 . 6.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.	4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-27</u> are subject to restriction and/or e	lection requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

Application/Control Number: 10/575,844 Page 2

Art Unit: 1634

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-10, 14-18, drawn to a method for distinguishing AML subtypes with recurring aberrations comprising determining the expression levels of polynucleotides. This group is subject to a further requirement to elect a specific AML subtype with recurring aberrations or specific combination of AML subtypes with recurring aberrations, as discussed below.

Group II, claim(s) 1-7, 11-18, drawn to a method for distinguishing AML subtypes with recurring aberrations comprising determining the expression levels of polypeptides. Claim 1 is drawn to polypucleotides; however, Claim 11 is drawn to polypeptides. This group is subject to a further requirement to elect a specific AML subtype with recurring aberrations or specific combination of AML subtypes with recurring aberrations, as discussed below.

Group III, claim(s) 19-27, drawn to a kit comprising a reference and a reference databank.

2. The groups presented above contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

As discussed below, a restriction requirement is being made such that applicant

is required to further elect a specific AML subtype or specific combination of AML subtypes. Applicants are required to a pick a specific polynucleotide or specific combination of polymorphisms directed to the specific AML subtype or specific combination of AML subtypes. Applicant is further required to disclose in Tables 1.1-2.78 which the elected specific polynucleotide or specific combination of polynucleotides. These AML subtypes do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the description fails

to disclose that all of the AML subtypes in each of the combinations share a common

property or activity. While each AML subtypes might serve to detect its own respective

full length DNA, due to the lack of sequence homology between each AML subtypes,

one AML subtypes cannot be used to amplify the same region of DNA as another.

Moreover, since the polynucleotides are not homologous to each other, they fail to share a common structure, i.e., a significant structural element. The sugarphosphate backbone cannot be considered a significant structural element, since all nucleic acid molecules share it. Therefore, the variants do not share any significant structural element and cannot be considered as having the same or corresponding technical feature.

The mere fact that AML subtypes are derived from the same source (e.g. AML) is not sufficient to meet the criteria for unity of invention. The polynucleotides fail to share a common property or activity and fail to share a common structure. Since neither of these two requirements is met, the group of polynucleotide molecules claimed does not

Application/Control Number: 10/575,844

Art Unit: 1634

meet the requirement of unity of invention.

3. The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features. According to PCT Rule 13.2, unity of invention exists only when a shared same or corresponding special technical feature is a contribution over the prior art. The technical feature, which is shared by Groups I-III, is markers for distinguishing ALM subtypes with recurring genetic aberrations. Groups I-III do not share a special technical feature over the art because Schoch et al. (PNAS 2002 Vol 99 p. 10008) teaches markers for distinguishing ALM subtypes with recurring genetic aberrations (abstract). Therefore, markers for distinguishing ALM subtypes with recurring genetic aberrations fails to make a contribution over the prior art; there is no special technical feature between Groups I-III.

Page 4

4. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process

Page 5

claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not

patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

Page 6

- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katherine Salmon whose telephone number is (571) 272-3316. The examiner can normally be reached on Monday-Friday 8AM-430PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached on (571) 272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/575,844 Page 7

Art Unit: 1634

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Katherine Salmon/ Examiner, Art Unit 1634

/Juliet C Switzer/ Primary Examiner, Art Unit 1634